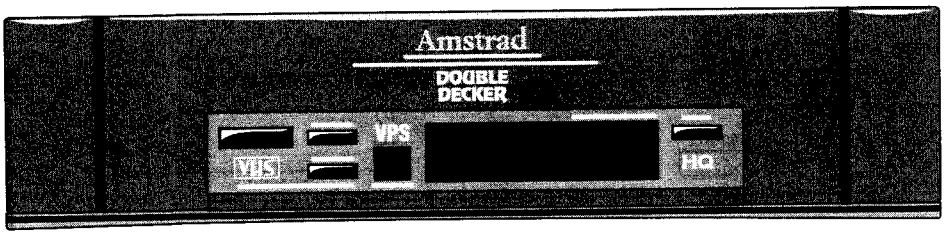
V04974
=DD9901

DD9904



English GB
Français F
Deutsch D
Español E
Italiano IT
Nederlands NL

Amstrad

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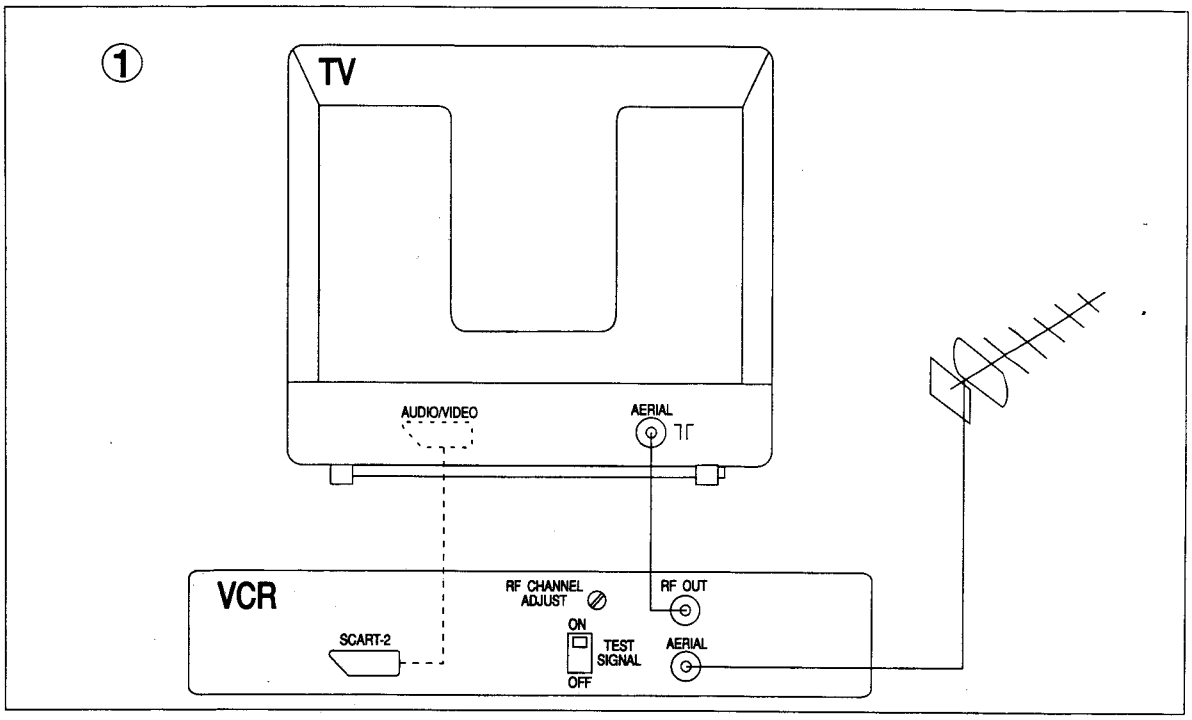
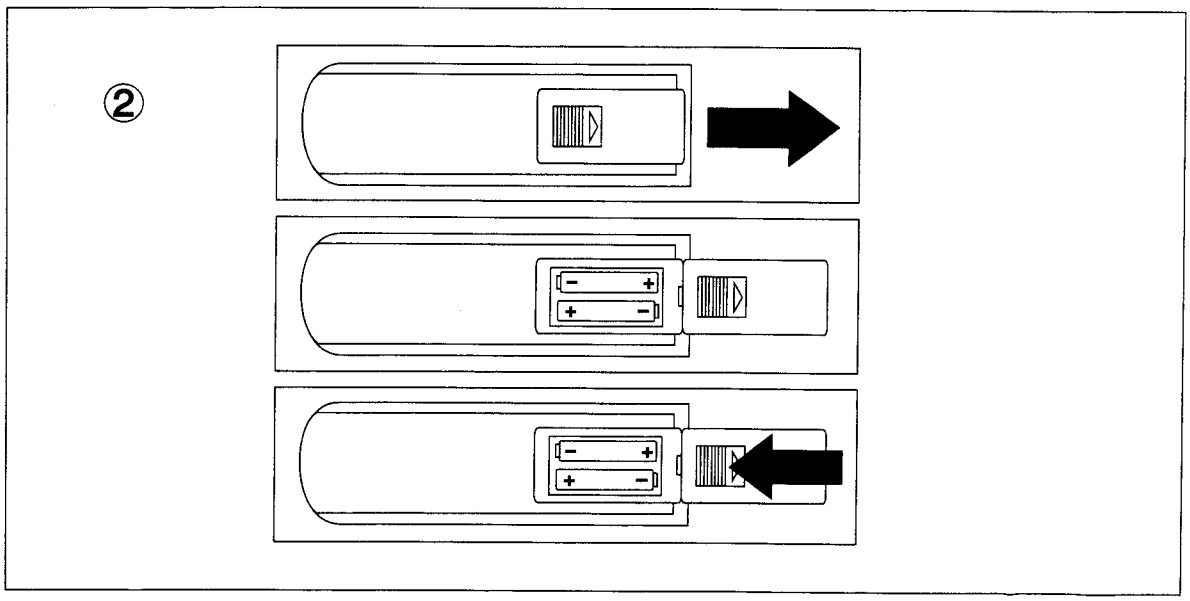

①
TV
AUDIO/VIDEO
AERIAL
VCR
RF CHANNEL ADJUST
RF OUT
ON
SCART-2
TEST SIGNAL
AERIAL
OFF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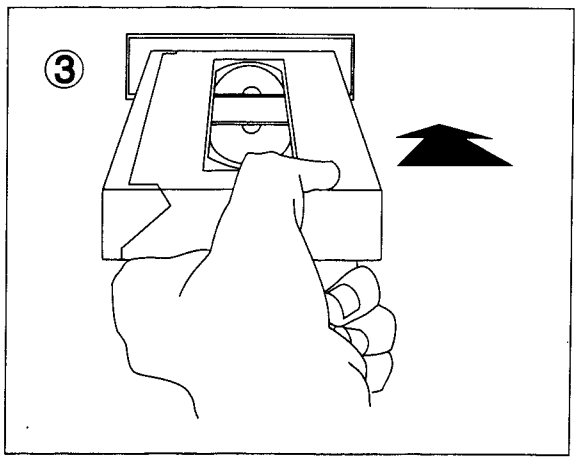
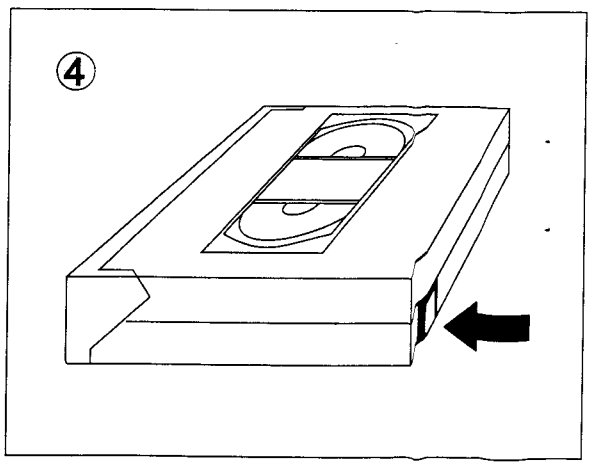

③


④

DON'T LOSE YOUR REMOTE CONTROL HANDSET - MANY IMPORTANT FUNCTIONS OF THIS VIDEO CASSETTE RECORDER (VCR) CANNOT BE USED WITHOUT IT.

NOTE THAT ALL OPERATING INSTRUCTIONS REFER TO THE REMOTE CONTROL HANDSET UNLESS OTHERWISE STATED. (SOME OF THE REMOTE CONTROL FUNCTIONS ARE DUPLICATED ON THE FRONT PANEL.)

NOTE - WHEREVER YOU SEE A GREEN NUMBER IN THE MARGIN, YOU CAN FIND FURTHER INFORMATION (IF YOU NEED IT) BY LOOKING UP THAT NUMBER IN THE GREEN 'REFERENCE' SECTION OF THIS MANUAL.

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Specification 26
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Precautions

Safety precautions

To avoid fire or electric shock:

* **NEVER** connect the VCR to any mains supply other than 220-230V ac 50Hz.
* **NEVER** open the cabinet while the VCR is connected to the mains supply.
* **NEVER** push any object into the VCR through the ventilation slots in the cabinet.

1 * **DO NOT** expose the VCR to rain, moisture or condensation.

2 * **DO NOT** obstruct any of the ventilation slots in the cabinet.

Operating precautions

* **DO NOT** attempt to gain access inside the VCR. There are no user serviceable parts inside.
* **DO NOT** use the VCR near any sources of heat.
* **DO NOT** use the VCR near magnetic fields.
* **DO NOT** use the VCR in any position other than horizontal.

WARNING

Television broadcasts and pre-recorded video tapes contain material which is protected by copyright laws and cannot be copied without the consent of the copyright owner. Copying such material without consent of the copyright owner may result in civil and/or criminal liability and penalties.

Amstrad does not consent to or authorise the copying of any such material and the purchase of an Amstrad double deck VCR does not provide or convey any consent or authorisation to make recordings (in whole or in part) of any copyright materials.

SPECIAL CIRCUITRY

Some pre-recorded video movies that may be purchased or rented are produced incorporating a copy protection signal during their mass duplication process. This VCR incorporates certain electronic circuitry which together with the copy protection signal prevents unauthorised copying. Attempts to copy such material are unlawful and will result in impaired or destroyed picture quality. This is not a fault in your VCR.

Preparation

3 Connecting the VCR to your TV

(Refer to diagram 1 inside the front cover.)

1. Connect your aerial to the AERIAL socket of the VCR.
2. Connect your television to the RF OUT socket of the VCR (using the TV cable supplied).

Note

4 * You can connect a satellite receiver or video camera to this VCR.

6 Fitting the remote control batteries

(Refer to diagram 2 inside the front cover.)

1. Slide away the battery cover (on the underside of the remote control handset) to reveal the battery compartment.
2. Remove the two batteries from their wrapper and place them into the handset the right way round.
3. Slide the battery cover back into place.

As soon as the batteries are in place, the handset display will indicate **- 1 -**.

Initial settings

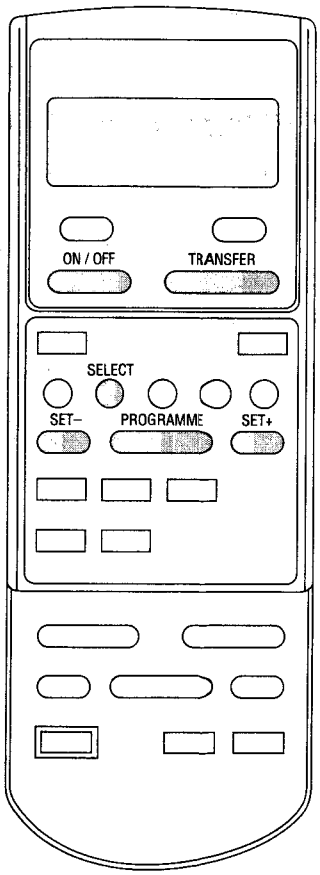
[9] Setting the clock

How to set the clock on the VCR display to the current date and time.

[11] This VCR uses the *24-hour* clock system.

[10] (The picture below shows which remote control buttons to use.)

1. Plug in the VCR to the mains supply. **- - : - -** will flash on the VCR display (on the front panel).
2. Press ON/OFF to switch on the VCR. The symbol ■ will appear at the left of the VCR display when the VCR is on.
3. Open the remote control handset door to reveal the centre controls, then press PROGRAMME (yellow) once.



[7] On the handset display, **- 1 -** will disappear, and instead, **1 2 3 4 5 6 7 WEEKLY** and **DATE** will flash *together*.

4. Press SET– twice so that **DATE** flashes *on its own*, then press SELECT. The *day* number (**1**) will flash.
5. Press SET+ or SET– to set the current day (1-31), then press SELECT. The *month* number (**1**) will flash.
6. Press SET+ or SET– to set the current month (1-12), then press SELECT. The *year* number (**00**) will flash.
7. Press SET+ or SET– to set the current year (00-99), then press SELECT. The *hour* (**0**) will flash.

[11] 8. Press SET+ or SET– to set the current hour (0-23), then press SELECT. The *minute* (**00**) will flash.

9. Press SET+ or SET– to set the current minute (00-59), then press SELECT. The |📡| symbol will now flash, telling you that you can transfer the clock settings to the VCR itself.

[5] 10. Aim the handset at the VCR and press TRANSFER (red).

[12] Once you have transferred the date and time settings, they will appear on the VCR display.

[14] The clock is now set.

[13] [7] 11. Press PROGRAMME (yellow) so that the handset display returns to **- 1 -**.

Tuning-in your TV

[15] How to tune-in your TV to receive the signal from the VCR.

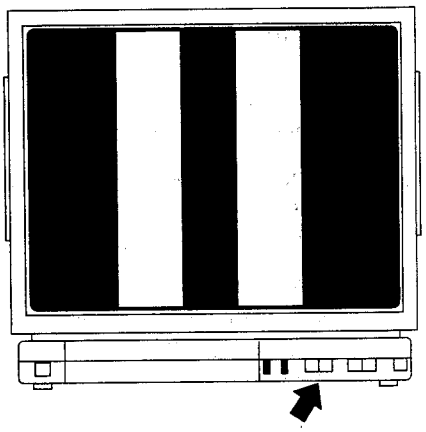
[8] 1. Switch on the VCR.

2. Switch on your TV and set it to a spare channel (eg. channel 8) allocated for video playback. (This channel will now be referred to as *the video channel.*)

3. Set the TEST SIGNAL switch (at the back of the VCR) to ON. (Refer to diagram 1 inside the front cover.)

[16] 4. Tune-in the selected video channel on your TV so that a black and white striped pattern appears on the screen.

5. Once you have tuned-in to the pattern, set the VCR's TEST SIGNAL switch to OFF.

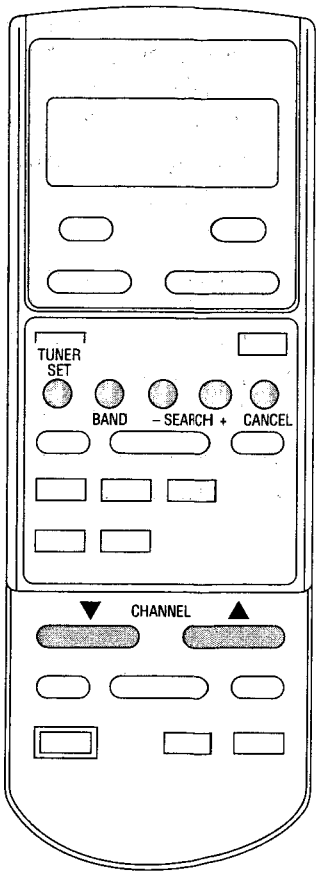


You have now tuned-in your TV to the VCR. From now on, whenever you wish to playback a video cassette, set your TV to the video channel.

17 Tuning-in the VCR

How to tune-in the VCR to receive all the TV stations you want to record.

(The picture below shows which remote control buttons to use.)



8 1. Switch on the VCR.

2. Switch on your TV and set it to the video channel. (The picture on your TV screen will *not* be tuned-in.)

5 18 3. Open the remote control handset door to reveal the centre controls, then press TUNER SET. The letter **P** will appear towards the left of the VCR display.

19 4. Press CHANNEL ▲ or ▼ to select the channel you wish to tune-in. (Check that the channel *number* appears on the VCR display (just to the right of **CH**), and *not* – – .)

21 Note that **L** (or **H** or **U**) will appear towards the right of the VCR display, denoting the currently selected band: VHF-Low (or VHF-High or UHF). If you wish to change the band, press BAND.

20 5. Press SEARCH + or – and the VCR will search for a TV station to store on that channel (the **P** will flash while the VCR is searching).

When a TV station is found, the **P** will stop flashing and the station will appear on the TV screen. If this *isn't* the station you want to store on that channel, press SEARCH + or – again until you find the right one.

6. Repeat steps 4 and 5 for each TV station you want to store.

7. Press TUNER SET. The **P** will disappear.

The VCR is now tuned in.

Notes

22 * After TUNER SET has been pressed, pressing CANCEL enables you to *cancel* any channel numbers you haven't tuned-in or don't require.

23 * If you have connected a satellite receiver to the VCR, then you will need to tune-in the VCR to the receiver using the above procedure. (This applies to any equipment you connect to the AERIAL socket at the back of the VCR.)

Cassette information

Use only VHS cassettes with this VCR.

24 26 When inserting a cassette, make sure it's the right way round and the right way up. (Refer to diagram 3 inside the front cover.)

Pull open the VCR's front panel door and gently push the cassette(s) into the tape slot(s).

(The left-hand slot is *tape 1*; the right-hand slot is *tape 2*.)

25 Whenever there is a cassette in the VCR, the 6 indicator for tape 1 and/or tape 2 will appear on the VCR display.

27 To remove a cassette, press the appropriate STOP/EJECT button on the front panel.

To operate a tape 1 or tape 2 function such as rewind, fast-forward, stop, etc., you must first select *which* tape deck you want to control: use TAPE 1↔2 to select between - **1** - and - **2** - (indicated on the handset display).

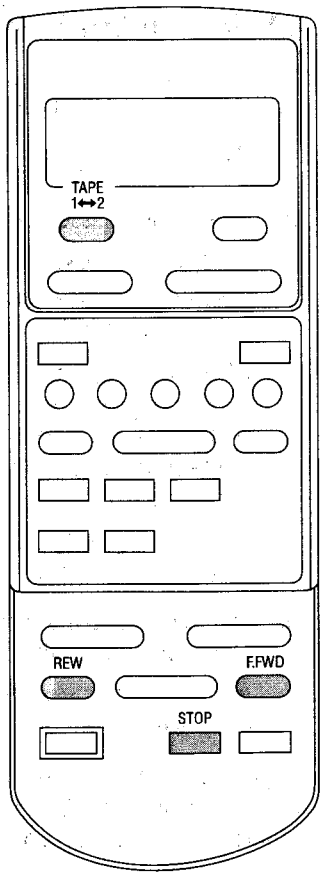
28 To wind the tape backwards or forwards, press REW or F.FWD respectively. (If the end of the cassette is reached, the tape will rewind automatically.)

To stop the tape, press STOP.

Cassettes are equipped with an erase protection tab. This tab can be found on the spine of the cassette. (Refer to diagram 4 inside the front cover.)

29 The tab can be removed for erase protection. Once removed, the VCR will not be able to record onto the cassette. (Playback however will be unaffected.)

If you wish to re-record onto an erase protected cassette, cover the tab hole with adhesive tape.



Recording

Subjects covered:

(A) Recording 1 programme onto 1 cassette

(B) Recording 1 programme onto 2 cassettes: *SIMULTANEOUSLY*

(C) Recording 2 different programmes onto 2 cassettes

(D) Recording 1 programme onto 2 cassettes: *CONTINUOUS*

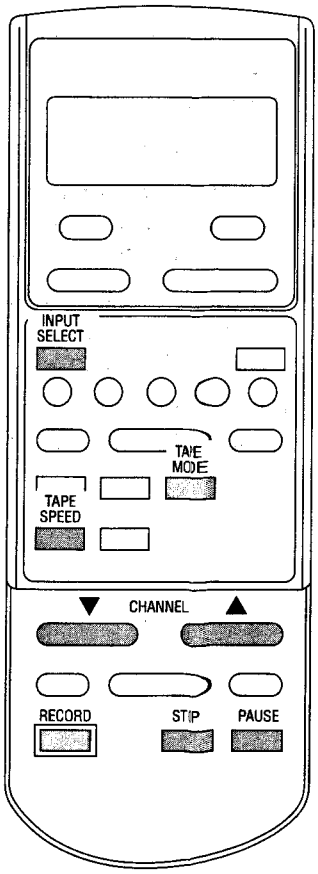
(E) Recording 1 programme onto 1 or 2 cassettes: *REPEATING LOOP*

(F) Recording 1 from cassette to another: *TAPE TO TAPE*

(G) Timer recording

(A) Recording 1 programme onto 1 cassette

How to record a TV programme or external input (eg. satellite) onto 1 cassette, just like a conventional single-deck VCR.



26 8 1. Switch on the VCR.

29 24 2. Insert the cassette into tape 1.

3. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)

31 28 4. Make sure tape 1's input selection is correct - if you are going to record a *TV programme*, then **TUNER** must be indicated at the left of the VCR display. (If necessary, press INPUT SELECT until the indication is correct.)

32 5. Press CHANNEL ▲ or ▼ to select the channel to record (indicated on the VCR display).

33 28 6. The tape speed (**SP** or **LP**) is indicated on the VCR display. If you wish to change it, press TAPE SPEED.

28 7. Press RECORD to start recording. (● (red) will appear on the VCR display.)

40 If you wish to pause during recording, press PAUSE once (■ will be displayed next to ●). Press PAUSE again to resume recording.

8. Press STOP to finish recording.

At the end of the cassette, the tape will automatically rewind.

Notes

* You must tune-in the VCR before recording any TV stations.
* If you are recording from external equipment (eg. a satellite receiver or SCART TV), remember **not** to change any of the equipment's settings *while the recording is in progress.*

38 * *OTR* (One-button Timer Recording) can be performed using button RECORD OTR (red) on the front panel.

39 * If you reset the *memory tape counter* to zero before you start recording, afterwards you'll be able to rewind the tape straight back to the starting point, ready for playback.

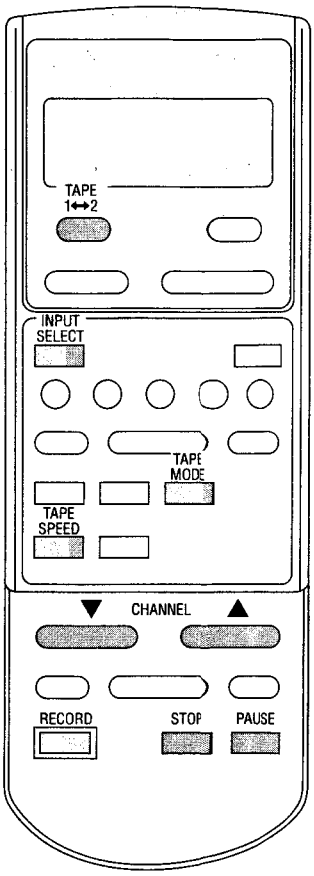
36 (B) Recording 1 programme onto 2 cassettes: *SIMULTANEOUSLY*

How to record the same TV programme onto 2 cassettes at once.

26 8 1. Switch on the VCR.

29 24 2. Insert the cassettes.

3. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)



> To carry out the following instructions on *both* tape 1 *and* tape 2, use the TAPE 1↔2 button first to select tape - **1** - or - **2** - (on the handset display), then press the appropriate function button.

36 4. Make sure **TUNER** input is selected for tape 1 *and* tape 2 (both indicated on the VCR display). If necessary, press INPUT SELECT.

36 5. Press CHANNEL ▲ or ▼ to select the channel to record (indicated on the VCR display).

33 6. The tape speeds (**SP** or **LP**) for tape 1 and tape 2 are indicated on the VCR display. If you wish to change either of them, press TAPE SPEED.

7. Press RECORD (for tape 1 and tape 2) to start each recording. (● (red) will appear on the VCR display for each tape deck.)

40 If you wish to pause during recording, press PAUSE once (for tape 1 and/or tape 2 - ■ will be displayed next to ●). Press PAUSE again to resume recording.

8. Press STOP (for tape 1 and tape 2) to finish each recording.

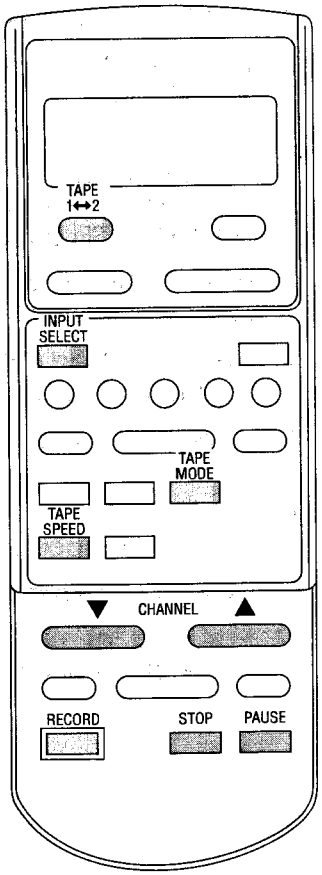
At the end of either cassette, the tape will automatically rewind.

(C) Recording 2 different programmes onto 2 cassettes

How to record a TV programme and an external input (eg. satellite or SCART TV) onto 2 separate cassettes.

35 * Note that 1 of the 2 programmes **must** be *external input.*

26 8 1. Switch on the VCR.



29 24 2. Insert the cassettes.

3. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)

> To carry out the following instructions on tape 1 *or* tape 2, use the TAPE 1↔2 button first to select tape **- 1 -** or **- 2 -** (on the handset display), then press the appropriate function button.

52 4. Select tape 1 and tape 2 inputs as follows:

* If the external input is *satellite* (plugged into the SCART-1 socket), then **EXT** must be selected for *tape 1* (indicated at the left of the VCR display). (If necessary, press INPUT SELECT until the indication is correct.)

35 * If the external input is *SCART TV* (plugged into the SCART- 2 socket), then **EXT** must be selected for *tape 2* (indicated at the right of the VCR display). (If necessary, press INPUT SELECT until the indication is correct.)

* Having selected **EXT** input for either tape 1 or tape 2, now select **TUNER** input for *the other* tape deck.

5. Press CHANNEL ▲ or ▼ to select the channel to record (indicated on the VCR display).

33 6. The tape speeds (**SP** or **LP**) for tape 1 and tape 2 are indicated on the VCR display. If you wish to change either of them, press TAPE SPEED.

34 52 7. Press RECORD (for tape 1 and tape 2) to start each recording. (● (red) will appear on the VCR display for each tape deck.)

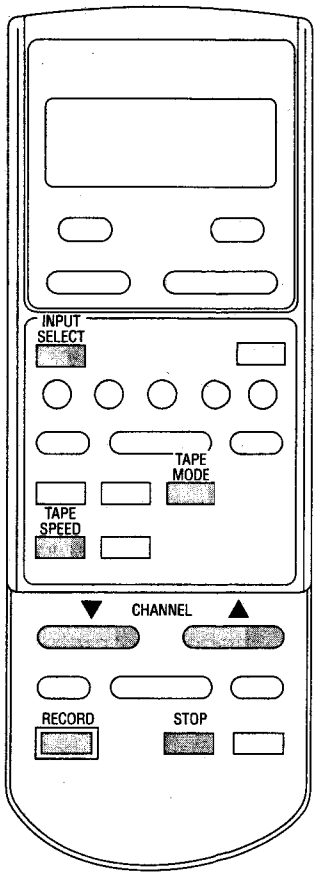
40 If you wish to pause during recording, press PAUSE once (for tape 1 and/or tape 2 - ■ will be displayed next to ●). Press PAUSE again to resume recording.

8. Press STOP (for tape 1 and tape 2) to finish each recording.

At the end of either cassette, the tape will automatically rewind.

(D) Recording 1 programme onto 2 cassettes: *CONTINUOUS*

How to record a TV programme or external input (eg. satellite or video camera) onto 2 cassettes, one after the other, then stop.



26 8 1. Switch on the VCR.

29 24 2. Insert the cassettes.

3. Press TAPE MODE so that **cont** is indicated on the VCR display.

31 4. Make sure the input selection is correct - if you are going to record a *TV programme*, then **TUNER** must be indicated on the VCR display. (If necessary, press INPUT SELECT until the indication is correct.)

32 5. Press CHANNEL ▲ or ▼ to select the channel to record (indicated on the VCR display).

33 6. The tape speed (**SP** or **LP**) is indicated on the VCR display. If you wish to change it, press TAPE SPEED.

34 7. Press RECORD to start recording. (● (red) will appear on the VCR display.)

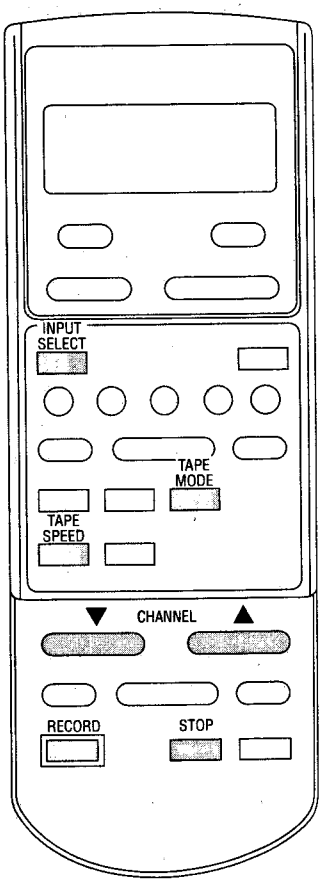
* The PAUSE button will not operate during continuous recording.

8. Press STOP to finish recording.

At the end of each cassette, the tape will automatically rewind.

(E) Recording 1 programme onto 1 or 2 cassettes: *REPEATING LOOP*

How to record a TV programme or external input (eg. satellite or video camera) onto 1 or 2 cassettes, looping indefinitely.



[26] [8] 1. Switch on the VCR.

[30] [29] [24] 2. Insert the cassette(s).

3. Press TAPE MODE so that **LooP** is indicated on the VCR display.

[31] 4. Make sure the input selection is correct - if you are going to record a *TV programme*, then **TUNER** must be indicated on the VCR display. (If necessary, press INPUT SELECT until the indication is correct.)

[32] 5. Press CHANNEL ▲ or ▼ to select the channel to record (indicated on the VCR display).

[33] 6. The tape speed (**SP** or **LP**) is indicated on the VCR display. If you wish to change it, press TAPE SPEED.

[34] 7. Press RECORD to start recording. (● (red) will appear on the VCR display.)

* The PAUSE button will not operate during loop recording.

8. Press STOP to finish recording.

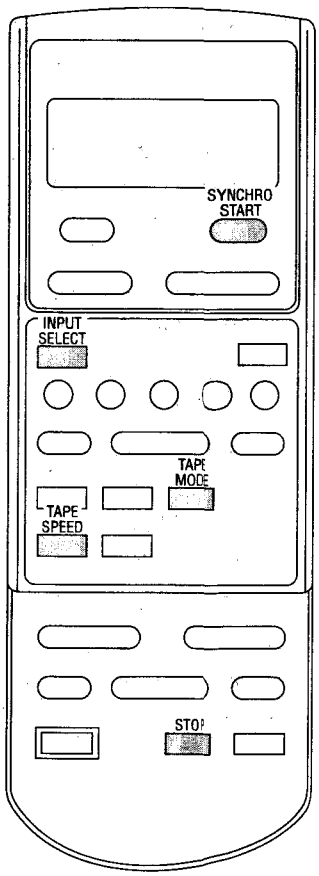
At the end of each cassette, the tape will automatically rewind, ready to restart when the other cassette ends. (If it is the *only* cassette inserted, it will restart as soon as it has rewound.)

(F) Recording from 1 cassette to another: *TAPE TO TAPE*

How to make a duplicate copy of a cassette. (Bear in mind that a copy can never be as good as the original.)

* **Read the WARNING box on page 2.**

26 8 1. Switch on the VCR.



24 2. Insert the cassettes as follows:

29 * Insert the cassette to *record onto* in tape 1.

* Insert the cassette to *copy from* in tape 2.

33 3. To set the tape speed for the new copy to be recorded, press TAPE SPEED for tape 1. (**SP** or **LP** is indicated at the left of the VCR display.)

37 4. Press SYNCHRO START once. Tape 1 will stand-by to *record*; tape 2 will stand-by to *playback*. To confirm you want the copy to go ahead, press SYNCHRO START again. Copying will start.

* The PAUSE button will not operate during SYNCHRO START copying.

5. Press STOP to finish copying (both tape decks will stop together).

If either cassette reaches the end, *both* tapes will automatically stop.

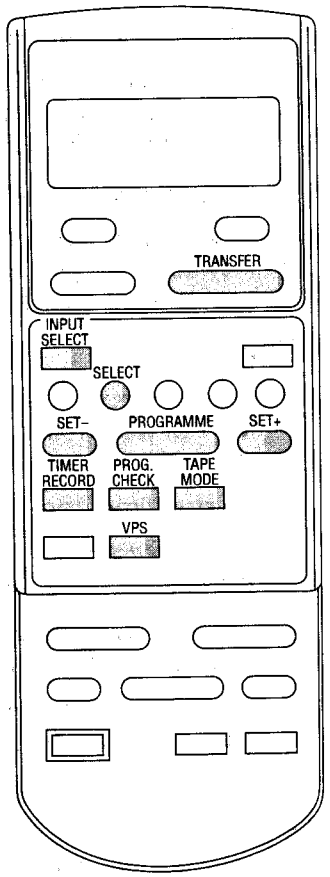
Manual tape to tape

The SYNCHRO START tape to tape method (described above) provides a simple, one-button copying facility. You can, however, *manually* record from one tape deck to another (in either direction) as follows (in brief):

1. Make sure **cont** or **LooP** is *not* indicated on the VCR display.
2. Make sure **TAPE** input is selected for the tape deck you are going to *record onto*.
3. Set one tape deck to record; the other to playback.

9 (G) Timer recording

How to record a TV programme or external input (eg. satellite) using the built-in timer to start and end the recording automatically.



26 8 1. Switch on the VCR.

29 24 2. Insert the cassette into tape 1.

3. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)

31 28 4. Make sure tape 1's input selection is correct - if you are going to record a *TV programme*, then **TUNER** must be indicated at the left of the VCR display. (If necessary, press INPUT SELECT until the indication is correct.)

10 5. Press PROGRAMME (yellow). The **PROG** event numbers (**1 2 3 4 5 6 7 WEEKLY**) will flash on the handset display.

41 6. Press SET+ to select an event number, eg. **1** (flashing).

7. Press SELECT. The word **DATE** will be displayed, ready for you to enter the date for timer recording. **START** day (**1**) will flash.

8. Press SET+ or SET– to set the required *start day* (1-31), then press SELECT. **START** month (**1**) will flash.

9. Press SET+ or SET– to set the required *start month* (1-12), then press SELECT. **DATE** will disappear. **START** hour (**0**) will flash.

11 10. Press SET+ or SET– to set the required *start hour* (0-23), then press SELECT. **START** minute (**00**) will flash.

11. Press SET+ or SET– to set the required *start minute* (00-59), then press SELECT. **START** will disappear. **END** hour will flash.

12. Press SET+ or SET– to set the required *end hour* (0-23), then press SELECT. **END** minute will flash.

13. Press SET+ or SET– to set the required *end minute* (00-59), then press SELECT. **CH** channel number (**1**) will flash.

42 43 14. Press SET+ or SET– to set the required *channel*, then press SELECT. The recording speed (**SP**) will flash.

33 15. If you *don't* want to change the speed, press SELECT. (If you *do* want to change the speed (to **LP**), press SET+ then SELECT.)

The symbol will flash. This means you can now transfer your programmed settings to the VCR.

16. Once [📡] is displayed, aim the handset at the VCR and press TRANSFER (red).

12 43 49 Once the transfer has successfully taken place, the programmed settings will appear on the VCR display for a few seconds, then the timer symbol [⌟] (red) for tape 1 will light *continuously*.

13 7 17. Press PROGRAMME (yellow) so that the handset display returns to **- 1 -**.

48 After the transfer, tape deck 1 will switch itself off, ready and waiting for timer recording to start. You can, however, continue to use tape 2 for recording, playback, etc. as normal. (The ON/OFF button will control *tape 2 only*.)

41 47 To programme another timer event, repeat steps 5 to 17 of the above procedure.

46 For each event you have programmed, tape 1 will switch on, make the recording, then switch off again automatically at the set date and time. ([⌟] will flash when all events have finished.) Press TIMER RECORD to switch on tape 1 again.

Notes

* Please ignore the VPS button. The VPS service is available in Germany only and will *not* work in this country. (If VPS appears on the handset display, press VPS to cancel it.)
* To **stop** timer recording (before or during an event), press TIMER RECORD.
* If any *outstanding* events are disengaged when TIMER RECORD is pressed, they can be re-engaged by pressing TIMER RECORD again.

44 * You can programme a *weekly* event whereby the recording will take place at the same time, same channel every week.

45 * You can programme *daily* events whereby the recording will take place at the same time, same channel every day.

50 * Pressing PROG.CHECK enables you to *check* a timer event.

51 * After PROG.CHECK has been pressed, pressing CANCEL enables you to *cancel* the selected timer event.

48 49 Continuous and loop timer recording

By pressing TAPE MODE to select **cont** or **LooP** in step 3 of the above procedure, you can extend timer operation to *both* tape decks so that when the cassette in tape 1 is full, tape 2 will take over. This allows you to *double* the length of timer recording.

* If you select **cont**, the timer recording sequence will be tape 1, tape 2, then stop.
* If you select **LooP**, the timer recording sequence will be tape 1, tape 2, tape 1, tape 2, etc.

Playback

Subjects covered:

(A) Playback 1 cassette

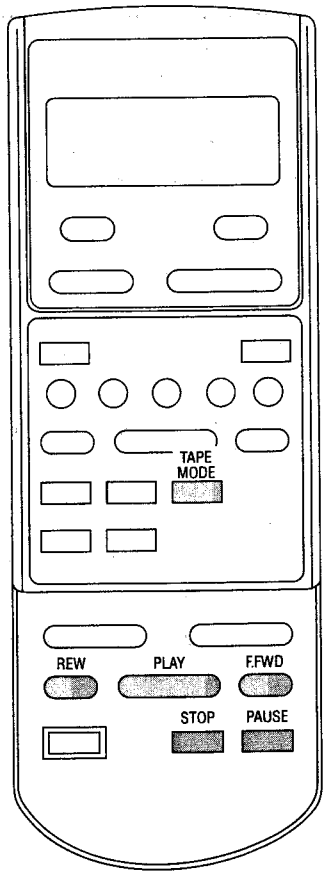
(B) Playback 2 cassettes: *SIMULTANEOUSLY*

(C) Playback 2 cassettes: *CONTINUOUS*

(D) Playback 1 or 2 cassettes: *REPEATING LOOP*

(A) Playback 1 cassette

52 How to playback 1 cassette, just like a conventional single-deck VCR. You can playback to 1, 2 or 3 TVs (connected to the RF OUT, SCART-2 and SCART-1 sockets).



15 1. Switch on your TV and set it to the video channel.

26 8 2. Switch on the VCR.

24 3. Insert the cassette into tape 1.

4. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)

28 53 5. Press PLAY.

54 55 If you wish to pause during playback, press PAUSE. To resume playback, press PLAY.

If you wish to picture search (backwards or forwards) during playback, press REW or F.FWD (press again to search faster). To resume playback, press PLAY.

6. Press STOP to finish playback.

At the end of the cassette, the tape will automatically rewind.

Notes

* You *don't* need to select the playback speed. It is determined automatically by the VCR.

55 * **During pause and picture search, you will experience white streaks across the picture. This is normal and does not indicate a fault in the VCR.**

* **During pause and picture search in *long play*, the picture will be black-and-white only. This is normal and does not indicate a fault in the VCR.**

* When playing back *worn* cassettes such as those rented from a video shop, set the front panel CASSETTE switch to the RENTAL position (red) for improved playback picture quality. Set the switch to NORMAL at all other times.

(B) Playback 2 cassettes: *SIMULTANEOUSLY*

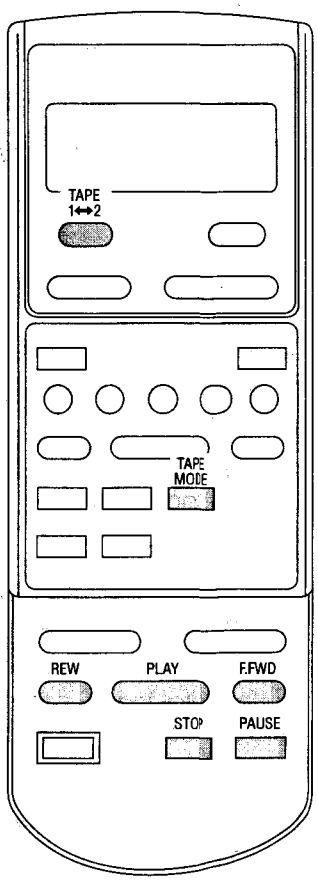
52 How to playback 2 cassettes to 2 (or 3) TVs at the same time. Connect one of the TVs to the SCART-1 socket; connect the other TV to the SCART-2 or RF OUT socket. (If you wish, you can connect a third TV to the remaining socket.)

15 1. Switch on your TV and set it to the video channel.

26 8 2. Switch on the VCR.

24 3. Insert the cassettes

4. Make sure **cont** or **LooP** is *not* indicated on the VCR display. (If necessary, press TAPE MODE to cancel the indication.)



> To carry out the following instructions on *both* tape 1 *and* tape 2, use the TAPE 1↔2 button first to select tape - **1** - or - **2** - (on the handset display), then press the appropriate function button.

53 52 5. Press PLAY (for tape 1 and tape 2) to start playback.

54 55 If you wish to pause during playback, press PAUSE (for tape 1 and/or tape 2). To resume playback, press PLAY.

If you wish to picture search (backwards or forwards) during playback (on tape 1 or tape 2), press REW or F.FWD (press again to search faster). To resume playback, press PLAY.

6. Press STOP (for tape 1 and tape 2) to finish playback.

At the end of either cassette, the tape will automatically rewind.

(C) Playback 2 cassettes: *CONTINUOUS*

How to playback 2 cassettes, one after the other, then stop. You can playback to 1 or 2 TVs (connected to the RF OUT and/or SCART-2 sockets).

15 1. Switch on your TV and set it to the video channel.

26 8 2. Switch on the VCR.

24 3. Insert the cassettes

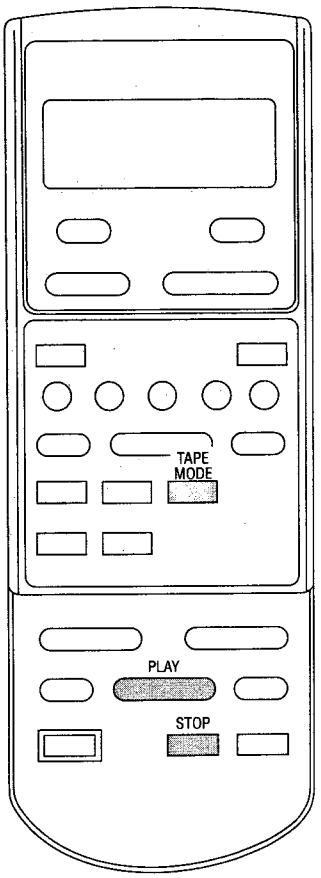
4. Press TAPE MODE so that **cont** is indicated on the VCR display.

53 5. Press PLAY to start playback.

* The PAUSE, REW and F.FWD buttons will not operate during continuous playback.

6. Press STOP to finish playback.

At the end of each cassette, the tape will automatically rewind.



(D) Playback 1 or 2 cassettes: *REPEATING LOOP*

How to playback 2 cassettes, one after the other (or 1 cassette only), looping indefinitely. You can playback to 1 or 2 TVs (connected to the RF OUT and/or SCART-2 sockets).

15 1. Switch on your TV and set it to the video channel.

26 8 2. Switch on the VCR.

30 24 3. Insert the cassette(s).

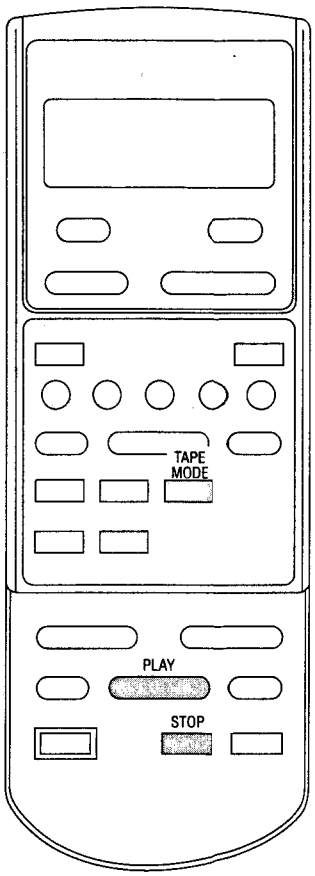
4. Press TAPE MODE so that **LooP** is indicated on the VCR display.

53 5. Press PLAY to start playback.

* The PAUSE, REW and F.FWD buttons will not operate during loop playback.

6. Press STOP to finish playback.

At the end of each cassette, the tape will automatically rewind, ready to restart when the other cassette ends. (If it is the *only* cassette inserted, it will restart as soon as it has rewound.)



Reference

YOU **DON'T** NEED TO READ THIS SECTION UNLESS YOU REQUIRE FURTHER INFORMATION ON THE VCR.

IF YOU HAVE REFERRED HERE FROM A PREVIOUS PAGE, SIMPLY LOOK UP THE SUBJECT NUMBER BELOW.

Precautions

1 If you accidentally spill liquid on the VCR, remove the mains plug from the supply socket and consult qualified service personnel.

The VCR should not be used under steamy conditions, or where condensation or moisture is present. Condensation will occur if you move the VCR from a cold location (eg. the boot of a car) to a warm room. In this situation, leave the VCR switched on at room temperature (without cassettes inserted) for about three hours before using the machine for recording or playback.

2 Do not install the VCR in a tight or sealed cabinet without ventilation. Don't operate the VCR while it is placed on a soft carpet.

Connections

3 If your TV is equipped with a 21-way socket, then you can connect it to the SCART-2 socket (at the back of the VCR) using a standard 21-way connecting cable. This will result in improved picture quality during playback.

4 If you wish to connect a satellite receiver to the VCR, then connect your aerial to the RF input socket of the receiver and connect the RF output socket of the receiver to the AERIAL socket of the VCR. (Connect your television to the RF OUT socket of the VCR as usual.)

If your satellite receiver is equipped with a 21-way socket, then you can connect it to the SCART-1 socket (at the back of the VCR) using a standard 21-way connecting cable. This will result in improved picture quality during satellite recording.

You can also connect a video camera to the SCART-1 socket, or, if the camera has a built-in RF modulator, you can connect it to the AERIAL socket.

If you connect any equipment to the AERIAL socket, the equipment's output signal will need to be tuned-in on the VCR before it can be recorded.

Remote control

5 When using the remote control handset, make sure that you point it towards the REMOTE SENSOR at the front of the VCR.

6 If the remote control handset stops working or works erratically, it is likely that the batteries need replacing. Remove the old batteries as soon as possible and replace them by new batteries (type number UM-4, AAA, R03 or equivalent). Always use leakproof batteries.

If you are not using the remote control handset for a few weeks or more, it is recommended that you remove the batteries from the battery compartment.

7 Before PROGRAMME is pressed, **- 2 -** may appear instead of **- 1 -** (on the handset display) depending on the TAPE 1↔2 setting. (That setting will reappear when PROGRAMME is pressed again.)

8 If you *cannot* switch on the VCR (and ⏎ (red) is indicated on the VCR display), you need to disengage timer recording. To do this, press TIMER RECORD.

Clock setting

9 When setting up the clock (or timer recording) using the remote control handset, remember that if you get 'lost' somewhere in the procedure, simply press PROGRAMME (yellow) so the handset display returns to **- 1 -** (or **- 2 -**), then start again.

10 When setting up the clock (or timer recording), you don't need to aim the handset at the VCR until just before you press TRANSFER.

11 Remember to use the *24-hour* clock system (for example, set 5:30pm as 17:30).

When setting up the hour, remember that 0 hours is 12 o'clock at night. (At this point, the date changes.)

12 If pressing TRANSFER (red) doesn't send the settings to the VCR (or if **ERROR** (red) flashes on the VCR display), aim the handset at the front panel and try pressing TRANSFER again. If **ERROR** still flashes every time, you have made a mistake when programming the settings. Try carrying out the entire procedure again.

Pressing TRANSFER will have no effect unless the symbol appears on the handset display first.

13 To return the handset to normal operation (with **- 1 -** or **- 2 -** displayed), press PROGRAMME (yellow). (It will return to normal *automatically* after 1 minute if no button is pressed.)

14 If the clock reads – – : – – when it should be showing the current time, this means that the VCR has been unplugged from the mains supply (or there has been a power cut). Therefore, you need to set the clock.

If the clock stops running or gives an abnormal reading on the VCR display, unplug the VCR from the mains supply for a few seconds then plug it in again and reset the clock.

Tuning-in

15 If you have connected the VCR to your TV using a 21-way connecting cable, then you don't need to carry out the TV tuning-in procedure, as whenever you press PLAY on the VCR, the playback picture will automatically appear on your TV - if it doesn't, then set your TV to *external input* (channel 0, AU, A/V, AUX or EXT).

16 When tuning-in your TV to the VCR, consult your TV's user instruction book and follow the tuning-in procedure therein.

If the output signal of the VCR interferes with an adjacent TV channel or with other equipment (e.g. a satellite receiver), then adjust the RF CHANNEL ADJUST control (at the back of the VCR) using a small screwdriver, by about a quarter of a turn. After doing this, you will need to re-tune your TV to the VCR.

(If you are in any doubt as to whether or not this control requires adjustment, you may prefer to consult your dealer before altering the setting.)

17 When tuning-in the VCR using the remote control handset, remember that if you get 'lost' somewhere in the procedure, simply press ON/OFF to switch off the VCR, then start again.

18 You cannot tune-in the VCR unless you have first set INPUT SELECT (for *tape 1*) to **TUNER** (indicated on the VCR display). If you haven't, then pressing TUNER SET will have no effect.

19 When tuning-in the VCR, if – – is displayed instead of the channel number (just below **CH**), then press CANCEL.

20 When searching for TV stations during tuning-in, note that the SEARCH + or – buttons should be pressed once and released - *not held in*.

21 Before searching for a TV station during tuning-in, you can press BAND to change the band indication between **L** and **H** and **U**. Note, however, that band changing will take place *automatically* when the top or bottom limit is reached.

22 If you wish to cancel any channel numbers you haven't tuned- in (so that they don't appear when you press CHANNEL ▲ and ▼), follow this procedure:

1. Switch on the VCR.
2. Press TUNER SET.
3. Press CHANNEL ▲ or ▼ until the channel number you wish to cancel appears.
4. Press CANCEL so that – – is displayed instead of the channel number (just below **CH**).
5. Repeat steps 3 and 4 for each channel number you wish to cancel.
6. Press TUNER SET to finish. (Then select a different channel.)

You can *restore* a cancelled channel by following the above procedure, but at step 4, press CANCEL so that the *channel number* is displayed (just to the right of **CH**) instead of – –.

23 If you have connected a satellite receiver (or other equipment) to the SCART-1 socket *only*, then you don't need to tune-in a channel number for that equipment.

Cassettes

24 If you insert a cassette the wrong way round or the wrong way up, it will eject immediately. If you cannot insert a cassette, check that the mains supply is on and that there isn't a cassette already in the VCR! Never try to force a cassette into the VCR.

If you wish to record and playback **simultaneously**, insert the cassette to *record* in tape 1, and the cassette to *playback* in tape 2.

25 If the [6] indicator *flashes*, the tape has jammed. Eject the cassette and check it for signs of physical damage.

26 The VCR will switch on automatically whenever a cassette is correctly inserted. (Additionally, the tape heads will self-clean.)

27 You cannot eject a cassette if it is to be used for timer recording.

28 If a remote control function doesn't seem to be working, check the correct tape deck (**- 1 -** or **- 2 -**) is indicated on the handset display. (If necessary, press TAPE 1↔2 to change the selection.)

If neither **- 1 -** nor **- 2 -** is displayed, press PROGRAMME (yellow).

29 Don't insert an erase protected cassette for recording onto. If you do, it will eject as soon as you press RECORD (or as soon as you engage timer recording).

30 For loop recording or playback with only 1 cassette inserted, you can use *either* tape deck.

Recording

31 If you want to record from a satellite receiver connected to the SCART-1 socket, press INPUT SELECT until **EXT** is indicated (for tape 1) on the VCR display. (This applies to *any* equipment, eg. video camera, home computer, etc.) you have connected to the SCART-1 socket.

32 If you *aren't* going to record a TV programme, then you don't need to select a channel number.

33 The VCR can record and playback at two speeds, SP (Standard Play) and LP (Long Play).

Selecting LP allows you to double the recording time of a video cassette (eg. an E180 cassette will last 6 hours) but sacrifices a little in picture and sound quality.

If you select LP, remember that should you wish to playback the cassette on *a different* VCR, that machine must *also* be equipped with long play.

34 If you are recording from external equipment, remember not to change any of its settings during the recording.

35 If you have a SCART TV (connected to the SCART-2 socket), then by leaving the TV set to a channel you wish to record and setting tape 2 INPUT SELECT to **EXT** (and tape 1 INPUT SELECT to **TUNER**), you can record 2 different TV programmes simultaneously.

36 You cannot record from 1 *external input* (eg. satellite receiver, video camera, etc.) onto 2 cassettes simultaneously.

37 If one (or both) of the cassettes is missing when you press SYNCHRO START, **ERROR** (red) will flash on the VCR display.

38 By pressing the button RECORD OTR (red) on the front panel, you can perform OTR (One-button Timer Recording). This enables you to make a recording which starts immediately and ends after a set time period. The period is determined by how many times you press the button - pressing it twice is 30 minutes, three times is 1 hour, four times is 1 hour 30 minutes, and so on, up to 16 hours.

During OTR, **OTR** (red) will appear on the VCR display. (The remaining recording time will also be indicated.)

OTR will also operate in **cont** or **LooP** mode; on one or both tape decks.

39 The VCR incorporates a tape counter and memory. If you reset the counter and memory before you start recording, when you rewind the cassette afterwards the tape will stop at the memory point, ready for playback. (The counter will *not* operate if **cont** or **LooP** is selected.)

To use the tape counter, follow this procedure:

1. Press CLOCK/COUNTER so that the tape counter number (4 digits) appears instead of the current time/date on the VCR display.
2. Press MEMORY so that **MEMO** appears next to the tape counter number.
3. Press RESET so that the tape counter number is reset to **0000**.

4. Make your recording.
5. After you have stopped recording, press REWIND. The tape will rewind and automatically stop when the counter passes through **0000**, ready for playback.

To restore the current time/date to the VCR display, press CLOCK/COUNTER again.

40 If you leave the VCR in pause mode during recording, then after 5 minutes, recording will resume. This is to save unnecessary wear on the VCR and the tape.

Timer recording

41 If you select an event number which has already been programmed (indicated on the VCR display), the new event will *overwrite* the old event (when you transfer it to the VCR).

42 The channel number you select for timer recording *must* be one that you previously tuned-in on the VCR. Otherwise, **ERROR** (red) will flash on the VCR display when TRANSFER is pressed.

This applies even if you have selected *external input* for timer recording (eg. from satellite). In other words, you must still select a valid channel number even though you don't want that channel recorded.

43 Having selected *external input* for timer recording; when the programmed settings are indicated on the VCR display, **E** will appear (instead of a channel number).

44 To programme a *weekly* event, follow the timer recording procedure, but at step 6, press SET+ or SET– so that the word **WEEKLY** is flashing, then press SELECT. Next, press SET+ or SET– so that the required day (**SUN**, **MON**, **TUE**, etc.) is flashing, then press SELECT. Continue from step 10 of the procedure.

45 To programme a *daily* event, follow the timer recording procedure, but at step 8, press SET– so that **SUN MON TUE WED THU FRI SAT** all flash *together*, then press SELECT. Continue from step 10 of the procedure.

46 If you're making a timer recording from a satellite receiver, make sure that it will be switched on while the timer recording is taking place.

47 If two or more timer events overlap, then the one which starts first takes priority.

48 If you select continuous or loop timer recording, both tapes 1 *and* 2 will switch themselves off while the VCR is waiting for timer recording to start. (The ON/OFF button will be inoperative.)

49 If the cassette is missing when you have set timer recording, **ERROR** and ⌟ (red) will flash on the VCR display. (Furthermore, if the cassette is at end-of-tape, it will be ejected.) If you have set *continuous or loop* timer recording, **ERROR** and ⌟ will flash unless *both* cassettes are inserted. (However, it *is* permissible to set continuous or loop timer recording with only 1 cassette inserted; and if this is your intention, simply ignore the flashing warning.)

Note that if ⌟ is not displayed at all, then timer recording is *not* set.

50 To check timer event settings, press PROG.CHECK. On the VCR display, an event number (1-**7** or **WEEKLY**) will flash, accompanied by its start time, date, channel and speed (press PROG.CHECK again to display the end time).

Pressing PROG.CHECK repeatedly will check every event in this manner. When *none* of the event numbers is flashing, checking is finished.

51 To cancel a timer event, follow this procedure:

1. Make sure that **- 1 -** or **- 2 -** is indicated on the handset display. (If it isn't, press PROGRAMME (yellow) so that it is.)
2. Make sure that ⌟ (red) *does not* appear on the VCR display. (If it does, press TIMER RECORD to remove it.)
3. Press PROG.CHECK repeatedly until the event you wish to cancel (**1-7** or **WEEKLY**) is flashing on the VCR display.
4. Press CANCEL so that the displayed time and date are both replaced by **– – : – –**. The timer event is now cancelled.
5. Press PROG.CHECK repeatedly until none of the event numbers is flashing.

Playback

52 You can set your TV to monitor either tape 1 or tape 2 by pressing OUTPUT SELECT. This button selects which output signal (tape 1 or tape 2) is to be fed to the RF OUT and SCART-2 sockets. (The selection is indicated by OUTPUT **TAPE1** or **TAPE2** on the VCR display.)

The output signal to the SCART-1 socket is *always tape 1* (regardless of the OUTPUT SELECT button).

53 This VCR incorporates *DTR* (digital tracking). This means that during playback, the tracking will be adjusted *automatically* for the clearest possible picture. On the VCR display, **DTR1** (or **DTR2**) will flash when tape 1 (or tape 2) is seeking the optimum tracking point, then display constantly when optimum tracking is achieved.

To override automatic tracking, press TRACKING ▲ or ▼ to adjust it manually. (Automatic tracking is *re-selected* as soon as current playback stops.)

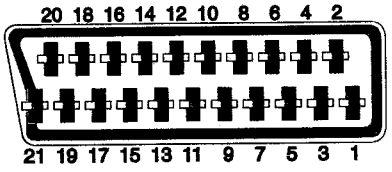
54 If you leave the VCR in pause mode during playback, then after 5 minutes, the VCR will stop. This is to save unnecessary wear on the VCR and the tape.

55 When you pause during playback for a still-frame picture, you can reposition the white streaks by pressing PAUSE repeatedly.

Specification

Format:	VHS HQ - auto tracking/auto head-cleaning
TV system:	Colour - PAL Tuner - BG
Recording system:	Video 2-head helical scanning Audio 1-head linear mono
Luminance signal:	FM azimuth
Colour signal:	Converted subcarrier phase shift
Video signal:	PAL 625 lines, 50Hz + Copyguard protection
Tape width:	1/2 inch (12.7mm)
Tape Speed:	23.4mm/sec SP quick start 11.7mm/sec LP quick start
Record/playback time:	8 hours SP (2 x E240) continuous 16 hours LP (2 x E240) continuous
Tuner:	Voltage synthesis auto search + AFT
Number of channels:	40 + external input
RF input:	VHF-Low channels 2-4 +CATV VHF-High channels 5-12 +CATV UHF channels 21-69
RF output:	UHF channel 36 (adjustable 32-40)
Video input:	1V p-p 75 ohms
Video output:	1V p-p 75 ohms
Video S/N ratio:	44dB weighted
Audio input:	-10dBV
Audio output:	-6dBV
Audio frequency response:	200Hz-8kHz
Audio S/N ratio:	40dB
Clock:	24-hour + date
Tape counter:	2 x 4-digit resettable + memory
OTR:	0-16 hours in 30 minute steps
Timer:	8 programmes over 1 year (7 individual or daily + 1 weekly) +VPS
Dimensions:	43(W) x 39(D) x 10(H) cm
Weight:	7.7kg
Mains supply:	220-230V ac 50Hz
Input/output connectors:	AERIAL 75 ohms coaxial RF OUT 75 ohms coaxial SCART-1 21-way SCART-2 21-way
Accessories:	Remote control handset Handset batteries Owner's manual TV cable

SCART sockets



SCART-1				SCART-2			
1	Audio output (tape 1 only)	17	Video ground	1	Audio output	17	Video ground
2	Audio input	19	Video output (tape 1 only)	2	Audio input (tape 2 only)	19	Video output
4	Audio ground	20	Video input	4	Audio ground	20	Video input (tape 2 only)
8	Switching voltage (out)	21	Shield/ground	8	Switching voltage (out)	21	Shield/ground

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Written by Ivor Spital
Produced by Janet Kiddier

First published 1992

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